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(54) Title  
MACHINE WITH CUTTER ARM ON HYDRAULIC CYLINDER

(56) Prior Art Documents  
49430/72 479473 85.7  
50865/69 428754 85.7

(57) Claim

1. A tunnel and gallery excavator including a motorized drive and chassis, a digging arm mounted pivotally on a swivel base on said chassis so as to be rotatable about a vertically directed swivel base axis, a digging tool attached to an end of said digging arm, said digging arm being lowerable and raisable by pivoting about a horizontal axis, a ground-contacting mechanism projecting from the front of said motorized drive and chassis, and a conveyor for stone and earth debris attached behind said front ground-contacting mechanism, said digging arm having at least one extendable support attached thereto, said extendable support being supported by and connected to said ground-contacting mechanism, and an operating and adjusting means is provided for raising and lowering said extendable support, said digging arm being elongated and having a longitudinal

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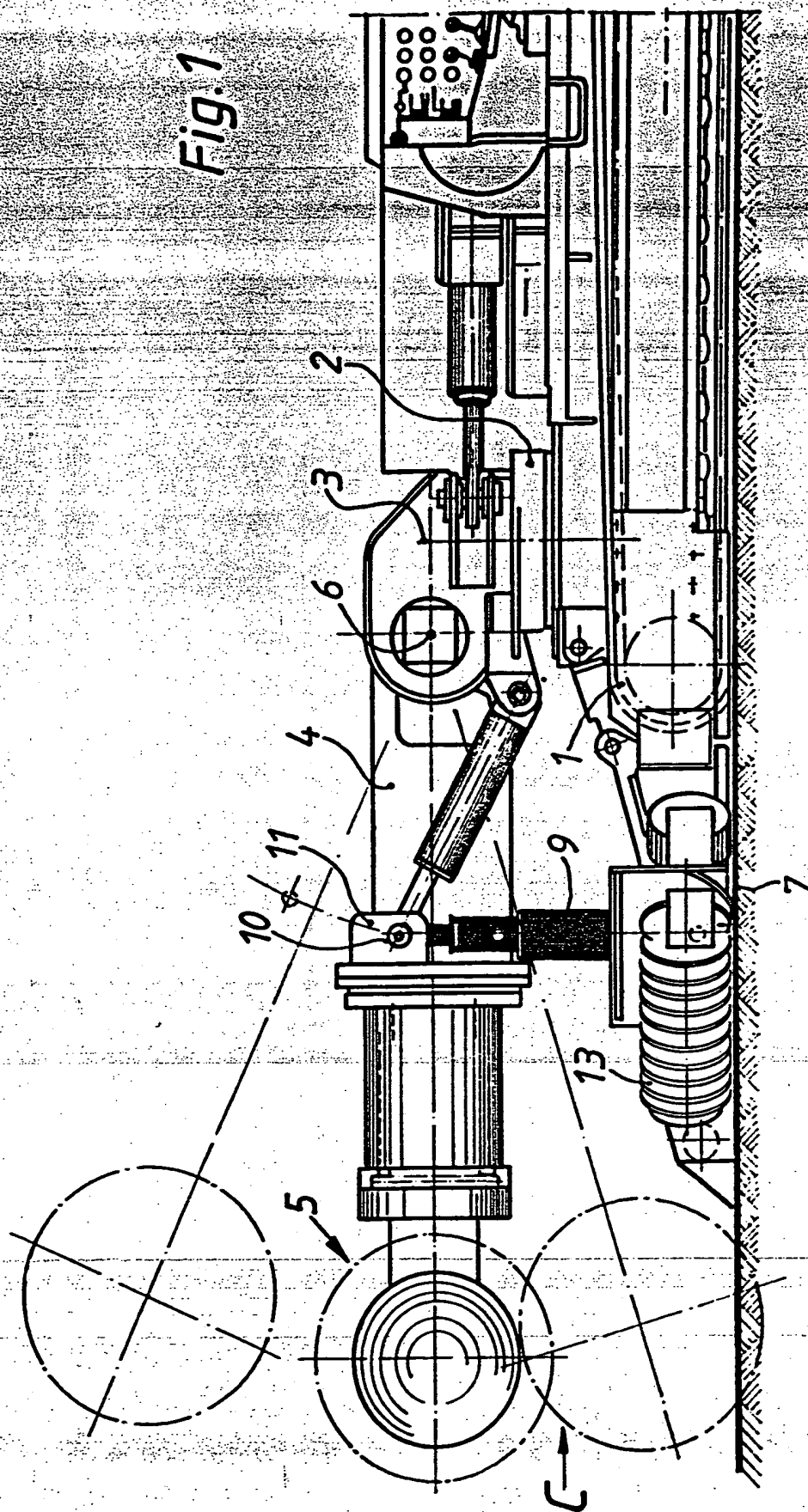
digging arm axis, said digging tool having a front protruding central digging drum symmetrically bisected by said digging arm axis and two lateral digging drums attached to opposite front sides of said digging arm adjacent said front digging drum, said ground-contacting mechanism being formed so as to collect debris and having at least one <sup>screw</sup> conveyor ~~screw~~ attached at its front which is oriented substantially parallel to a portion of said tool, said <sup>Screw</sup> conveyor forming with said portion a breaking-up tool which is juxtaposed with said lowered digging arm to crush and pulverize said debris and also to transport said debris to said conveyor.

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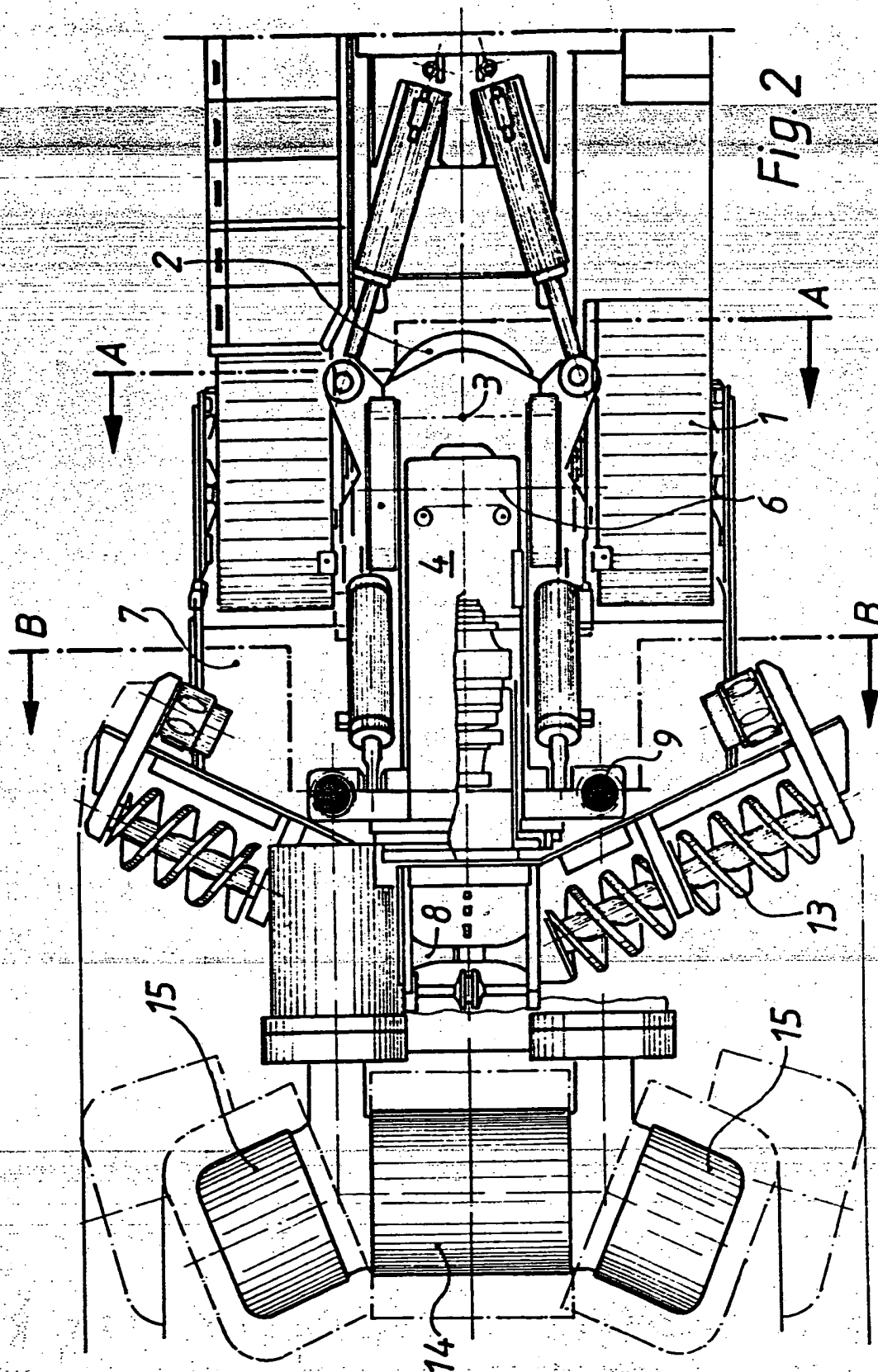
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Fig. 1



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